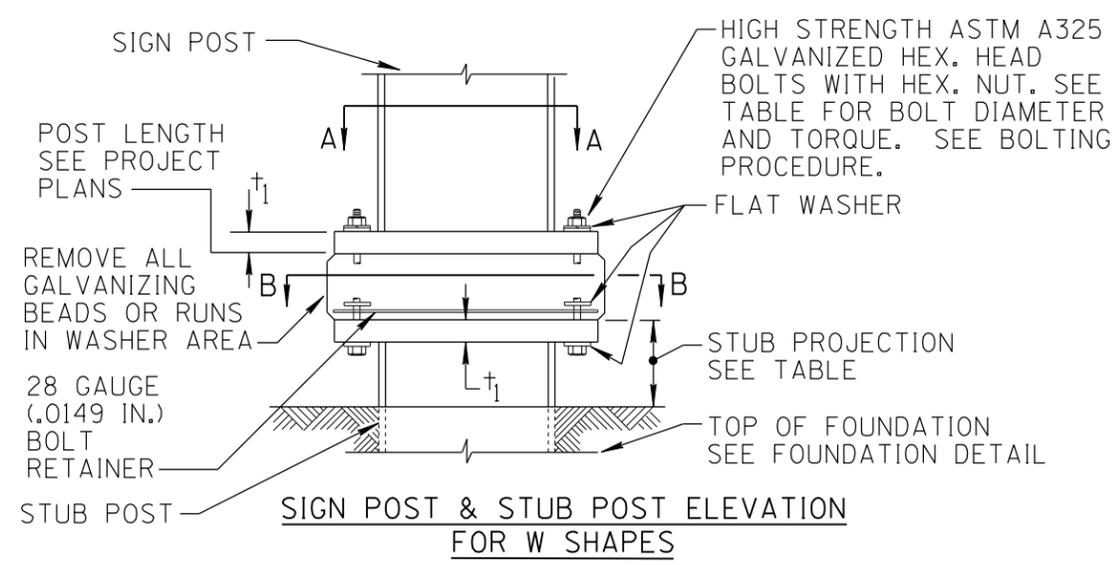
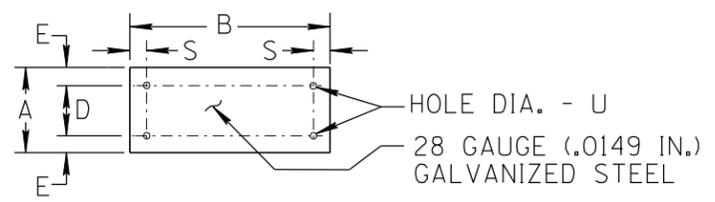


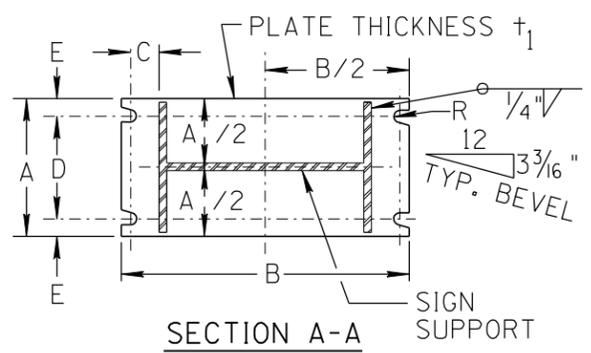
DATE 10/10
 MADE BY PARSONS BRINCKERHOFF
 DESCRIPTION OF REVISIONS
 NO. 3 REVISED AND RE-ISSUED, ADDED NEW BORDER.
 NO. 4
 DATE 8/00 3/02
 MADE BY L. LOPEZ L. LOPEZ
 DESCRIPTION OF REVISIONS
 1 CHANGED BORDER
 2 RE-ISSUE



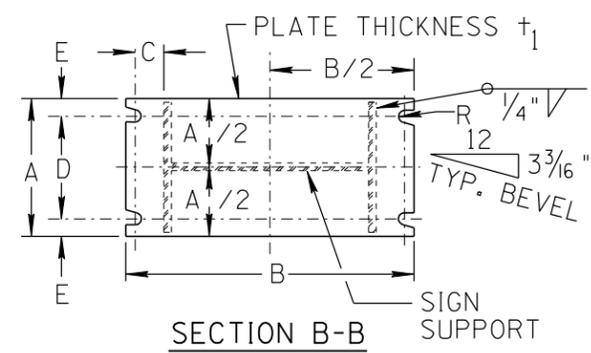
SIGN POST & STUB POST ELEVATION FOR W SHAPES



BOLT RETAINER FOR W SHAPE POST



SECTION A-A SIGN SUPPORT

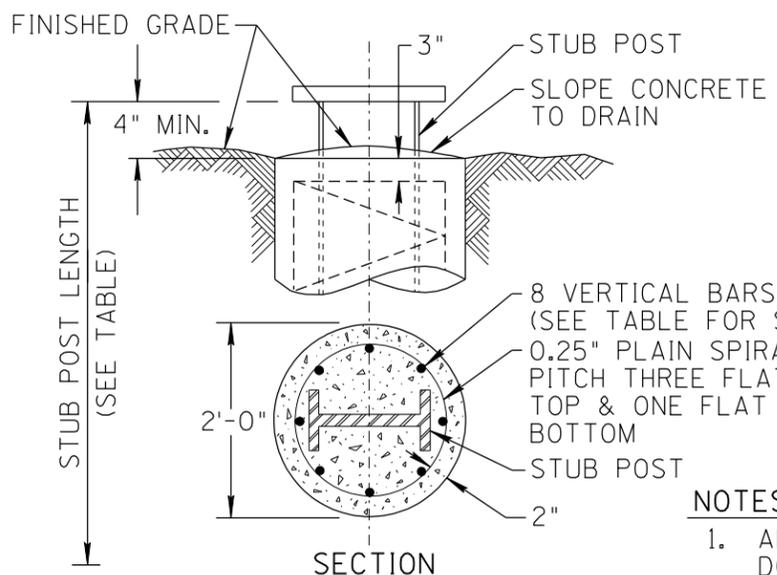


SECTION B-B SIGN SUPPORT

SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER AND GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATION ON LEFT SHOULDER.

BASE CONNECTION DATA TABLE

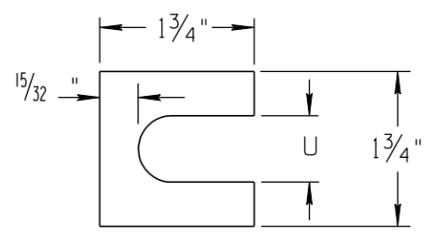
POST SIZE	BOLT SIZE AND TORQUE	DIMENSIONS FOR POST SIZES								
		A	B	C	D	E	R	t ₁	S	U
W6x12	3/4" DIA. x 3 3/4" TORQUE = 19 TO 29 FOOT-LBS	5 3/4"	10 1/2"	1 3/8"	2 3/4"	1 1/2"	1 3/32"	1"	7/8"	1 3/16"
W8x18	1" DIA. x 4 3/4" TORQUE = 19 TO 29 FOOT-LBS	6"	12 7/8"	1 5/8"	3"	1 1/2"	1 7/32"	1 3/8"	3/4"	1 1/16"
W10x22	1 1/8" DIA. x 5 1/2" TORQUE = 31 TO 46 FOOT-LBS	6 1/2"	15 3/8"	1 3/4"	3 1/2"	1 1/2"	1 9/32"	1 1/2"	7/8"	1 3/16"



SECTION

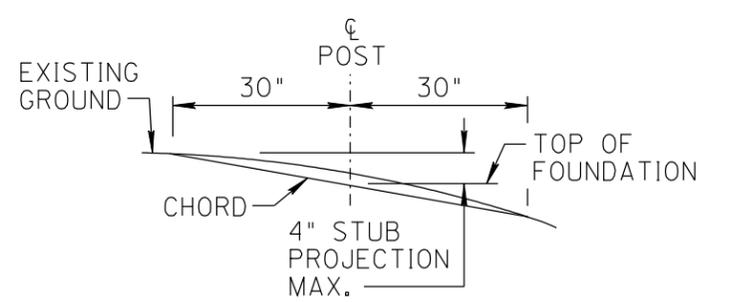
DRILLED SHAFT (CLASS "B" CONCRETE). SEE PLANS SHEET FOR DEPTH.

FOUNDATION DETAIL



SHIM DETAIL

FURNISH 2 EACH 0.012"± THICK AND 2 EACH 0.032"± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO THE REQUIREMENTS OF A.S.T.M. - B - 36. FOUR SHIMS PER BOLT MAXIMUM.



STUB PROJECTION LIMITS

NOTES:

1. ALL STUB POSTS SHALL BE GALVANIZED A MINIMUM OF 12" DOWN FROM THE BASE OF PLATE.
2. WHERE SOLID ROCK IS ENCOUNTERED, FOUNDATION SHALL BE PLAN DEPTH OR EXTENDED 2' MINIMUM INTO THE ROCK.
3. ALL PLATES SHALL BE ASTM A572 GRADE 50. ALL PLATE HOLES SHALL BE DRILLED. ALL PLATE CUTS SHALL PREFERABLY BE SAWCUTS; FLAME CUTTING WILL BE PERMITTED, PROVIDED ALL EDGES ARE GROUND SMOOTH.

PROCEDURE FOR BOLTING & ASSEMBLY OF BASE CONNECTION

1. ASSEMBLE POST TO STUB WITH BOLTS AND WITH ONE FLAT WASHER ON EACH BOLT BETWEEN PLATES.
2. SHIM AS REQUIRED TO PLUMB POST. (4 SHIMS PER BOLT MAXIMUM)
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" TO 15" WRENCH TO BED WASHERS AND SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN BOLTS IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE (SEE TABLE). TIGHTEN THE BOLTS IN THE BASE CONNECTION TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.
4. DO NOT BURR THREADS AT JUNCTION.

FOUNDATION DATA				APPROXIMATE QUANTITIES PER LIN. FT.		FOUNDATION DEPTH (SEE NOTE 2 ALSO)	
POST SIZE	STUB LENGTH	STUB PROJECTION	VERTICAL BAR SIZE	CONC. CU. YD.	STEEL LBS.	TWO, THREE OR FOUR POSTS SLOPES ≤ 4:1	TWO, THREE OR FOUR POSTS SLOPES > 4:1
W6x12	2'-0"	3"	#5	0.116	8.9	6'-0"	6'-0"
W8x18	2'-6"	3"	#7	0.116	16.3	7'-0"	7'-6"
W10x22	3'-0"	2 1/2"	#9	0.116	26.5	8'-0"	8'-6"

NOT TO SCALE

DESIGN APPROVED
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ARIZONA DEPARTMENT OF TRANSPORTATION
 INTERMODAL TRANSPORTATION DIVISION
 TRAFFIC SIGNING & MARKING
 STANDARD DRAWINGS
 BREAKAWAY POST DETAILS
 FOR
 W SHAPE GUIDE SIGNS

REVISION 10/10
 DRAWING NO. S-5
 SHEET NO. 1 OF 1